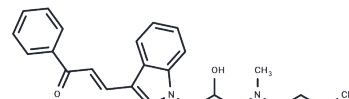


PknB-IN-1

Chemical Properties

CAS No. :	1447917-39-6
Formula:	C25H30N2O2
Molecular Weight:	390.52
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	PknB-IN-1 (Compound 2) is an inhibitor of protein kinase B (PknB) with a concentration causing 50% inhibition (IC ₅₀) of 14.4 μM. This compound demonstrates anti-mycobacterial activity by effectively suppressing the growth of M. tuberculosis H37Rv strain, with a minimum inhibitory concentration (MIC) of 6.2 μg/mL [1].
In vitro	PknB-IN-1, within a concentration range of 0-100 μM and over a 60-minute incubation period, effectively inhibits the activity of M. tuberculosis PknB, as demonstrated in a Cell Viability Assay. The assay, conducted on an M. tuberculosis cell line under the specified conditions, showed PknB inhibition with an IC ₅₀ value of 7.3 μM.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5607 mL	12.8034 mL	25.6069 mL
5 mM	0.5121 mL	2.5607 mL	5.1214 mL
10 mM	0.2561 mL	1.2803 mL	2.5607 mL
50 mM	0.0512 mL	0.2561 mL	0.5121 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

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